SSD-MD (XML) Subpanel
18 Apr 2002

- DoD XML Registry News
  - Glenda Hayes, MITRE
- Update from MSG COI
  - George Cooper, DISA
- Data Issues from ebXML Registry/Repository Specification
  - Bob Daniels, MITRE
- Update on Registry activities and “PostalAddress” Convergence Exercise
  - David Webber, XML Global

DoD XML Registry News

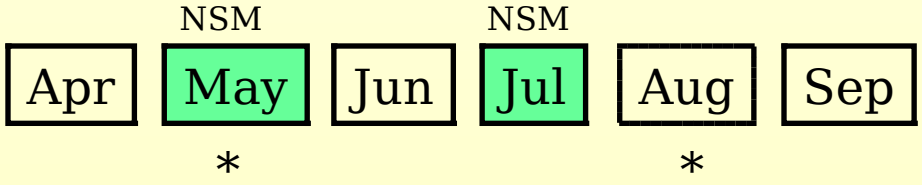
- SSD-MD Meeting Schedule
- SIPRNET Registry Instance is operational
- DoD XML Registration Policy
- NBC COI Approved
  - ASD CB-Defense (Dr. Johnson-Winegar's office), under USD ATL
  - Jaci Knudson, COI Mgr
- AOP Naming Conventions
- New Inventory Figures
- GAO XML Report
- Tentative Agenda for next SSD-MD Mtg

Meeting Schedule

Additional VTC requests should be sent to ghayes@mitre.org soonest

- FY02 SSD-MD Dates and Locations
  - 6/13/2002 - Wilson-1B02, Bedford-3M507, FtMo-3025, Langley-109
  - 9/12/2002 - Wilson-1B02, Hanscom-1624, FtMo-3025, Gunter, Langley-109

- FY02 NSM Forum Dates and Locations
  - 5/16/2002 - Wilson-1B02, with VTC to Hanscom-1624, FtMo-3025, Gunter, Langley-109
  - 7/25/2002 - Wilson-1B02, with VTC to Hanscom-1624, FtMo-3025, Gunter, Langley-109



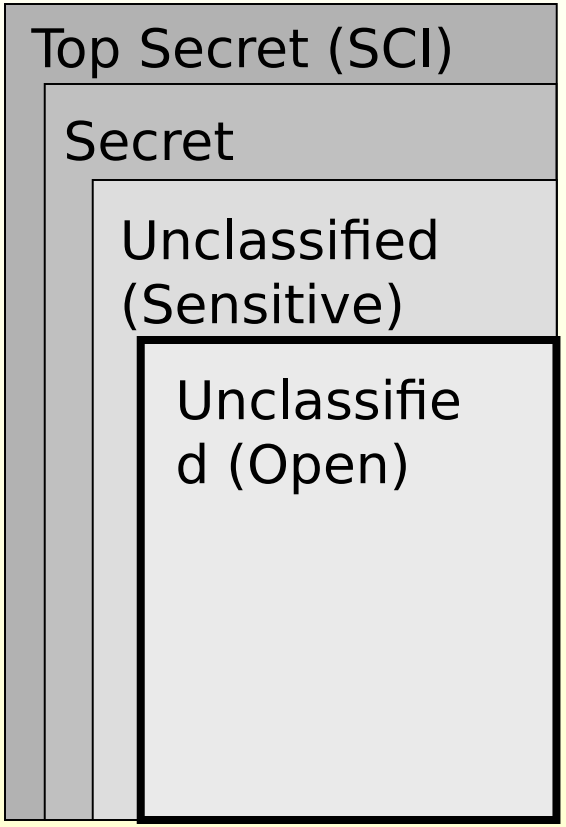
* = No DATATWG Meeting

DoD XML Registry

Synchronized Components on Multiple Networks

- **Unclassified (Open)**
  - NIPRNET w/Internet Access
  - http://diides.ncr.disa.mil/xmlreg
- **Unclassified (Sensitive)**
  - Open Registry contents *plus* "FOUO" components
  - NIPRNET w/Internet Access, password
  - http://diides.ncr.disa.mil/xmlreg
- **Secret**
  - Unclassified (Sensitive) contents *plus* secret components
  - SIPRNET
  - http://diides.ncr.disa.smil.mil
- **Top Secret (SCI)**
  - Secret contents *plus* SCI components
  - JWICS
  - not yet available

New!



Support for Developers on Multiple Security Domains

DoD XML Registration

Policy Coordination

DoD CIO Actions

- CRCB directs Chief Engineer to propose COE XML process for DoD
- Chief Engineer briefs DoD CIO Executive Board (EB) **29 Aug 2000**
- CIO EB asks for
  - Draft registration Policy memo
  - Draft implementation plan
  - Resource assessment
  - Staff through ASD C3I, USD ATL, etc.
  - Name Change Request: DOD XML Registry
- Policy for Registration of Extensible Markup Language (XML)
  - USD ATL has concurred
  - ASD C3I has signed, USD ATL to sign by end of month
  - Detailed Implementation Plan will available via DoD XML Registry

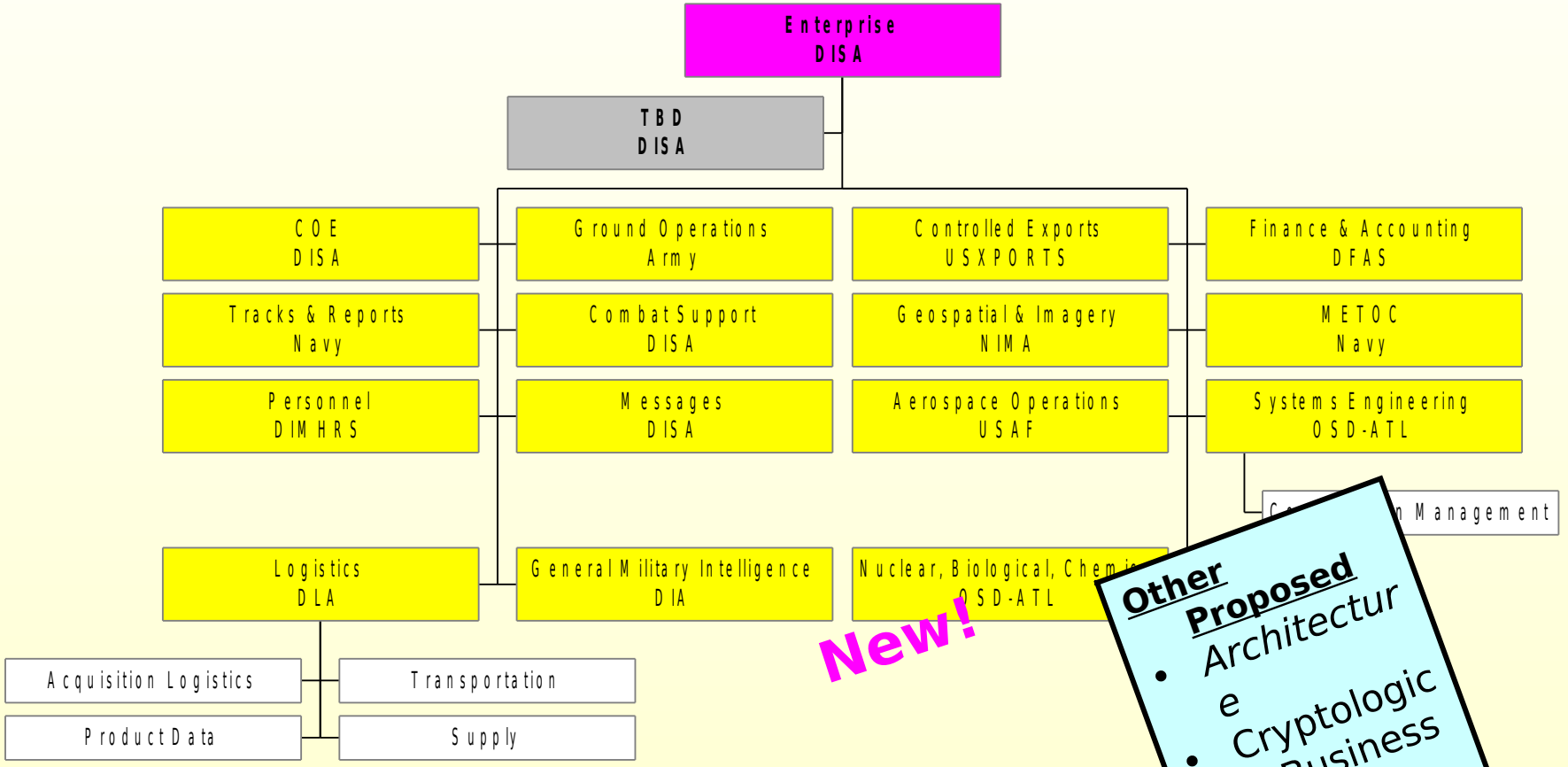
New!

Coordination with Federal CIO

- Briefings to FedCIO XMLWG (http://www.xml.gov)
- Participation in NIST Registry Proof of Concept

DoD XML Registry

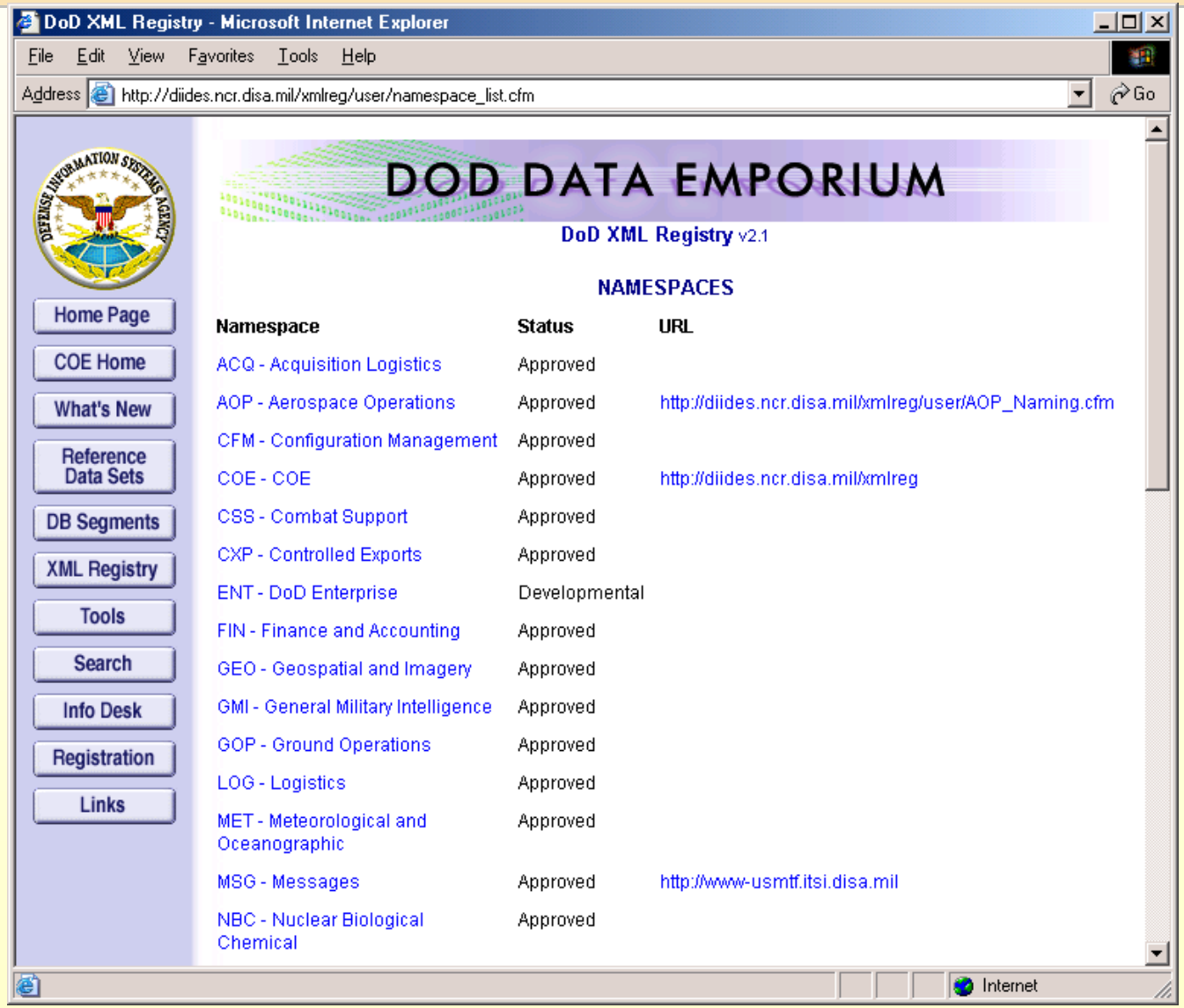
Communities of Interest



Formal Process to Establish New COIs

AOP Naming Conventions

Published on DoD XML Registry


DoD XML Registry - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Address http://diides.ncr.disa.mil/xmlreg/user/namespace_list.cfm
Go
DOD DATA EMPORIUM
DoD XML Registry v2.1
Home Page
COE Home
What's New
Reference Data Sets
DB Segments
XML Registry
Tools
Search
Info Desk
Registration
Links
NAMESPACES
Namespace | Status | URL
ACQ - Acquisition Logistics | Approved
AOP - Aerospace Operations | Approved | http://diides.ncr.disa.mil/xmlreg/user/AOP_Naming.cfm
CFM - Configuration Management | Approved
COE - COE | Approved | http://diides.ncr.disa.mil/xmlreg
CSS - Combat Support | Approved
CXP - Controlled Exports | Approved
ENT - DoD Enterprise | Developmental
FIN - Finance and Accounting | Approved
GEO - Geospatial and Imagery | Approved
GMI - General Military Intelligence | Approved
GOP - Ground Operations | Approved
LOG - Logistics | Approved
MET - Meteorological and Oceanographic | Approved
MSG - Messages | Approved | http://www-usmtf.itsi.disa.mil
NBC - Nuclear Biological Chemical | Approved
Internet

Proposed COE Conventions

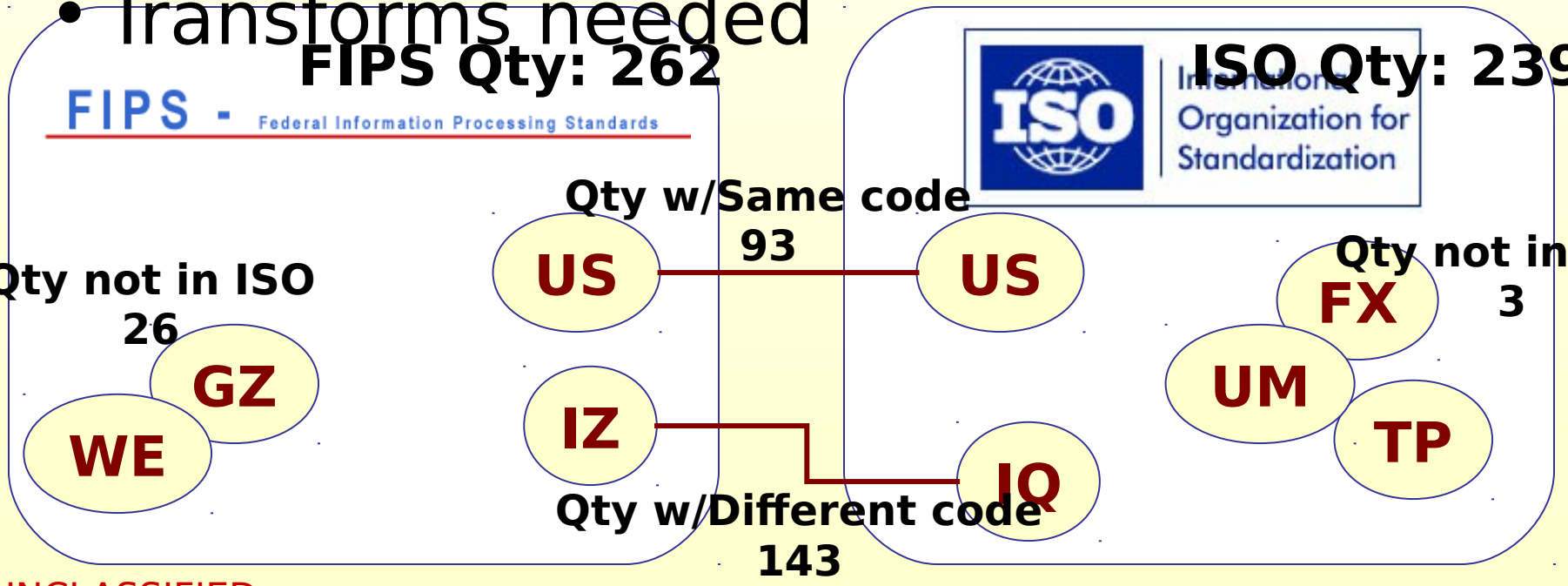
- Preference for W3C XML Schema Recommendation
- Use annotation/documentation for elements, attributes, types to provide documentation
- Use UpperCamelCase for elements, lowerCamelCase for attributes
- Use annotation/appinfo <Meaning> to provide meaning for enumeration values
- Use explicit Data Types rather than inline constraints
- Use UpperCamelCase for types and append “Type” to differentiate types from elements
- For aggregation tags, append “List” to element name
- Include xml:lang tag within schema and xml instance where needed.
- Limit the use of “generic” tags (e.g., no “item” tag)
- Express tie-back to XML Registry

Enclosed schemas are intended to conform

Registering Common XML Domains

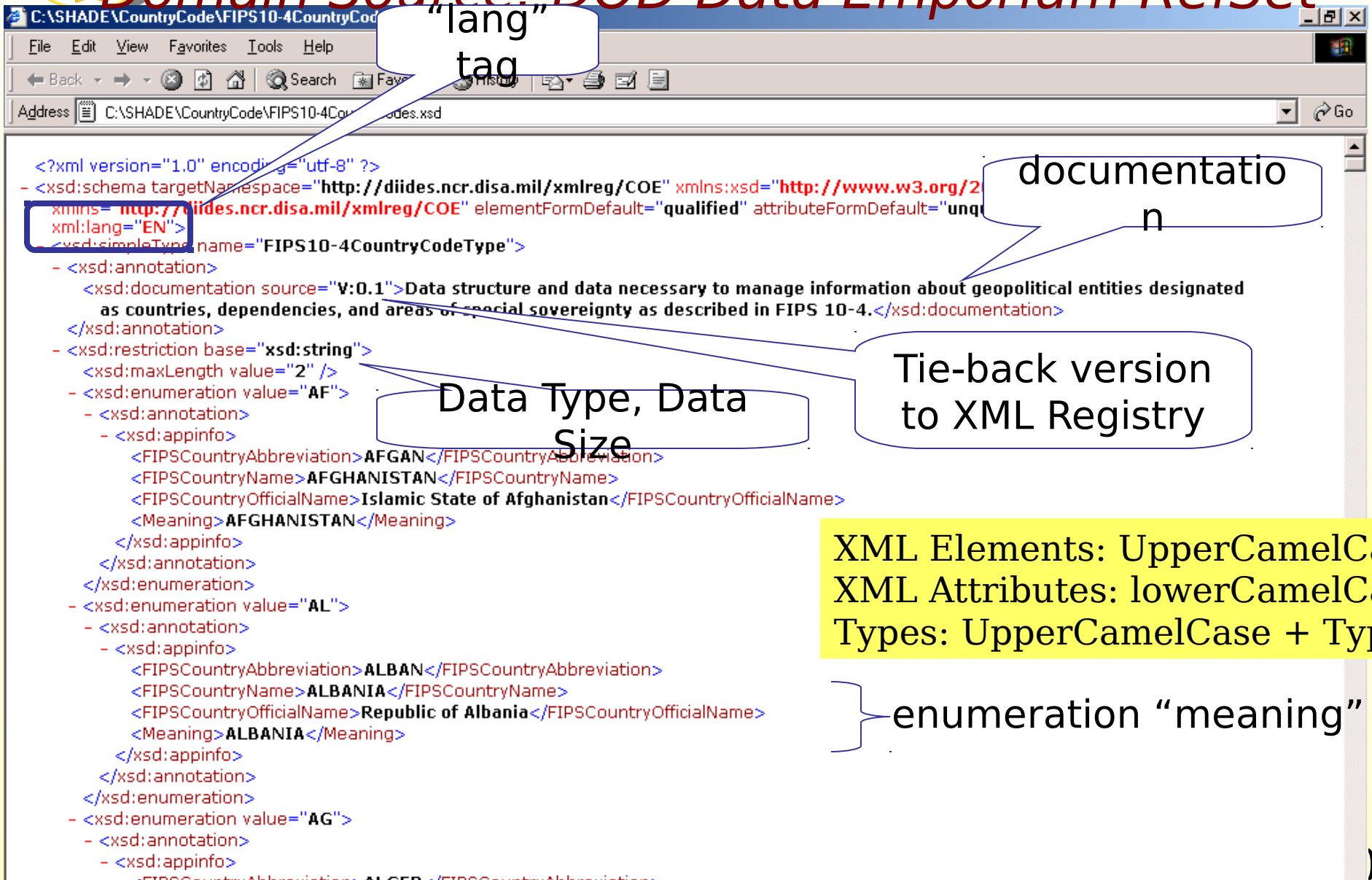
FIPS and ISO Country Codes

- Both standards exist, neither can be ignored
- Challenge for interoperability
- Transforms needed

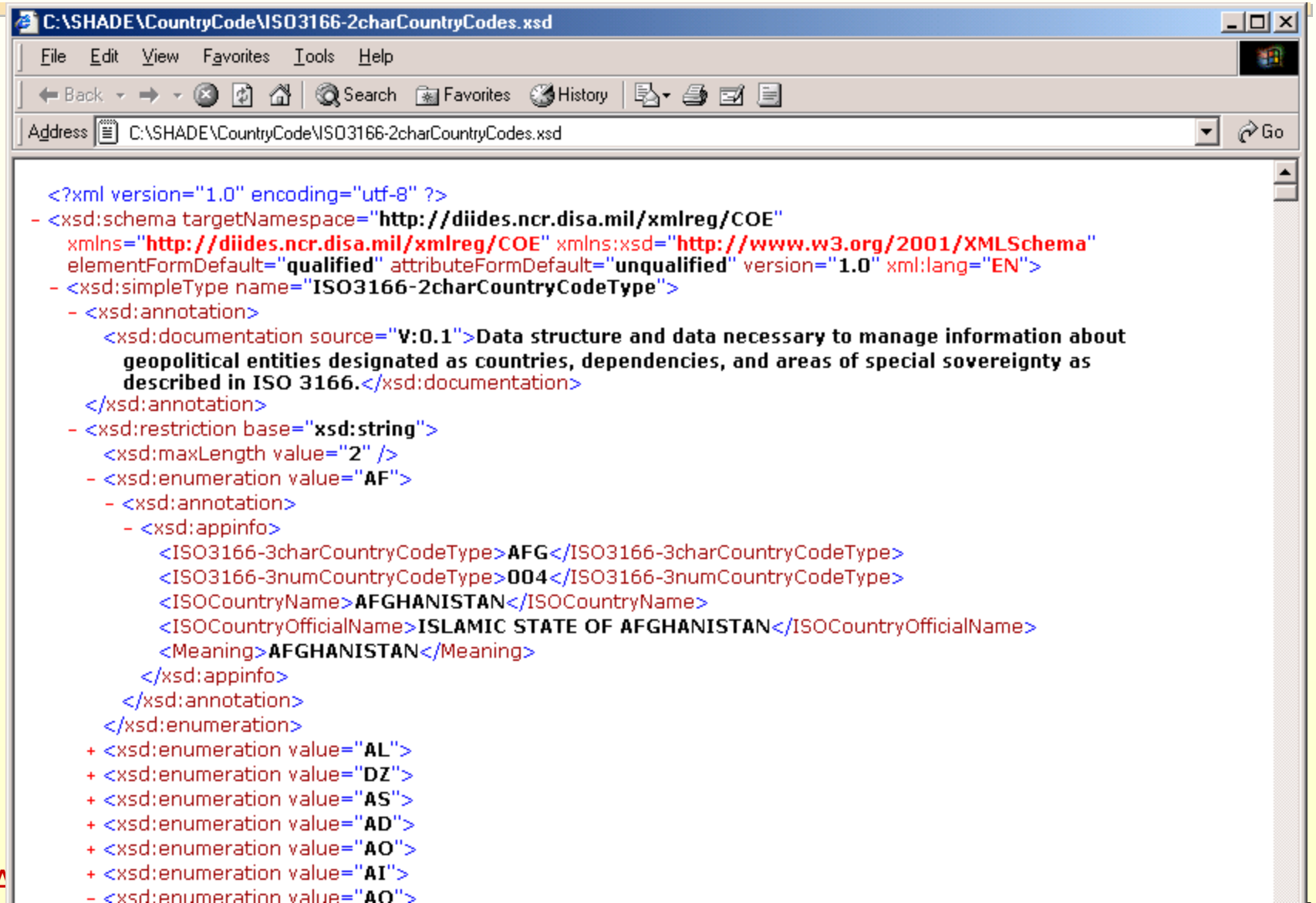


FIPS10-4CountryCodeType

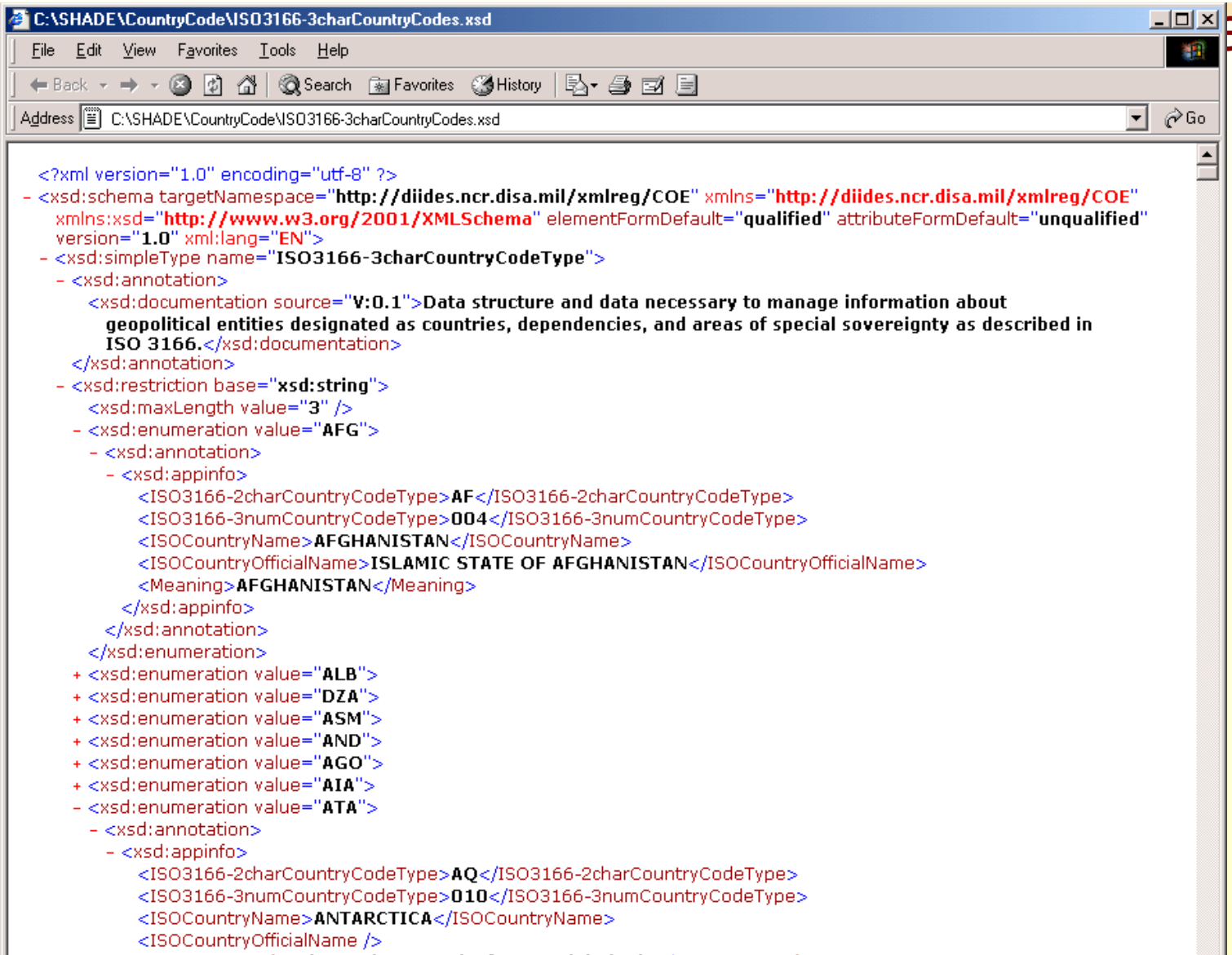
Domain Source: DOD Data Emporium RefSet



ISO 3166 *2-character Country Codes Domain Source: DOD Data*

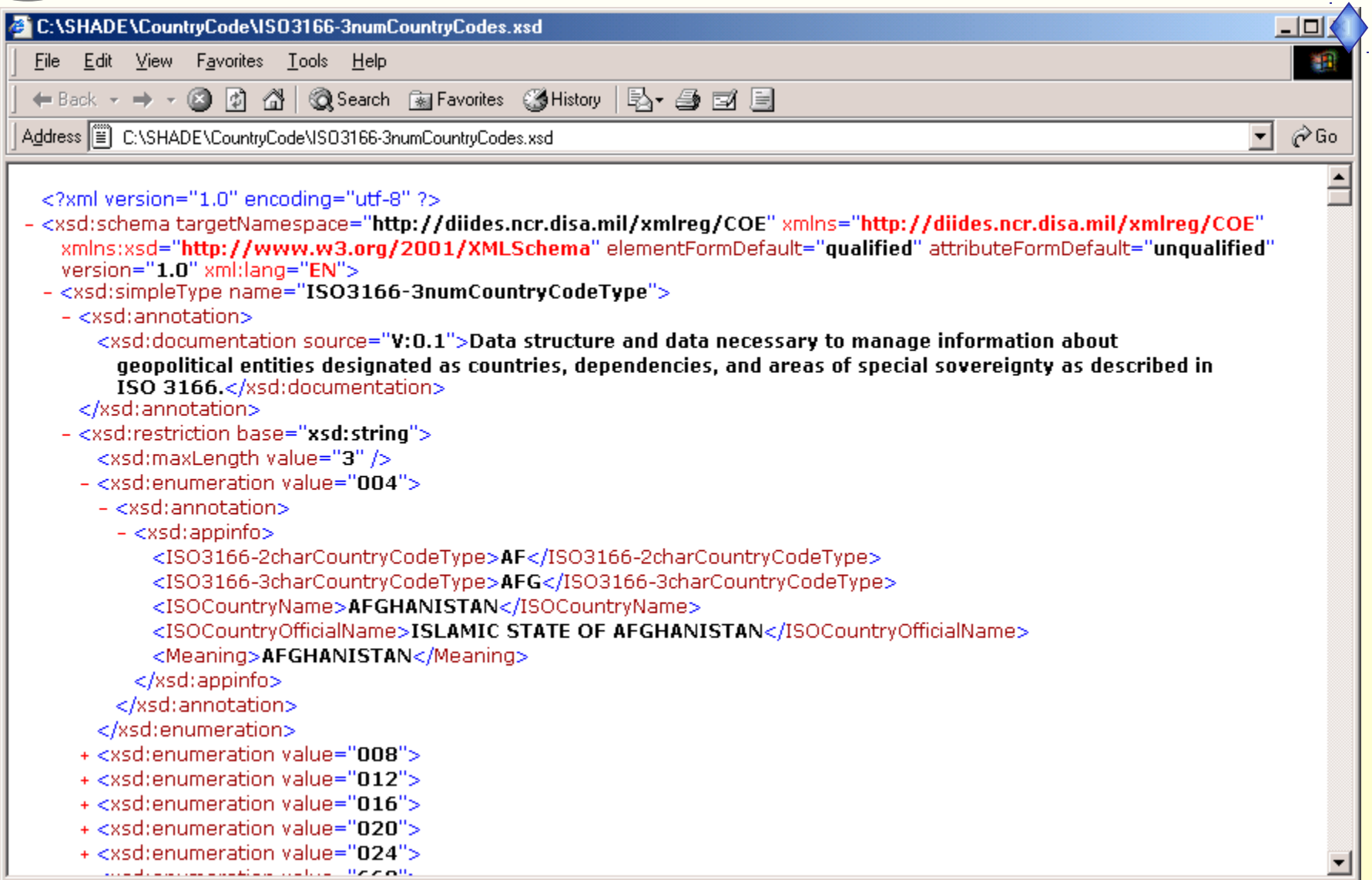


ISO 3166 *3-character Country Codes Domain Source: DOD Data*




```
<?xml version="1.0" encoding="utf-8" ?>
- <xsd:schema targetNamespace="http://diides.ncr.disa.mil/xmlreg/COE" xmlns="http://diides.ncr.disa.mil/xmlreg/COE"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified" attributeFormDefault="unqualified"
    version="1.0" xml:lang="EN">
  - <xsd:simpleType name="ISO3166-3charCountryCodeType">
    - <xsd:annotation>
        <xsd:documentation source="V:0.1">Data structure and data necessary to manage information about
          geopolitical entities designated as countries, dependencies, and areas of special sovereignty as described in
          ISO 3166.</xsd:documentation>
      </xsd:annotation>
    - <xsd:restriction base="xsd:string">
        <xsd:maxLength value="3" />
      - <xsd:enumeration value="AFG">
        - <xsd:annotation>
          - <xsd:appinfo>
              <ISO3166-2charCountryCodeType>AF</ISO3166-2charCountryCodeType>
              <ISO3166-3numCountryCodeType>004</ISO3166-3numCountryCodeType>
              <ISOCountryName>AFGHANISTAN</ISOCountryName>
              <ISOCountryOfficialName>ISLAMIC STATE OF AFGHANISTAN</ISOCountryOfficialName>
              <Meaning>AFGHANISTAN</Meaning>
            </xsd:appinfo>
          </xsd:annotation>
        </xsd:enumeration>
      + <xsd:enumeration value="ALB">
      + <xsd:enumeration value="DZA">
      + <xsd:enumeration value="ASM">
      + <xsd:enumeration value="AND">
      + <xsd:enumeration value="AGO">
      + <xsd:enumeration value="AIA">
      - <xsd:enumeration value="ATA">
        - <xsd:annotation>
          - <xsd:appinfo>
              <ISO3166-2charCountryCodeType>AQ</ISO3166-2charCountryCodeType>
              <ISO3166-3numCountryCodeType>010</ISO3166-3numCountryCodeType>
              <ISOCountryName>ANTARCTICA</ISOCountryName>
              <ISOCountryOfficialName />
```

ISO 3166 *3-number Country Codes*



DoD XML Registry
Current Inventory

- Documents - 635
- Domain Value Sets - 748
- Submission Packages - 52
- XML Attribute - 938
- XML Element - 14840
- XML Sample - 21
- Schema - 90
- Schema Data Type - 22
- Stylesheets - 4

Current As of 18 Apr 2002

Includes Password-protected Components

DoD XML Registry Inventory

by Namespace

Namespace	4/18/2002	4/18/02
	Develop	Operation
ACQ - Acquisition Logistics	0	0
AOP - Aerospace Operations	303	0
CFM - Configuration Management	0	0
COE - COE	172	0
CSS - Combat Support	24	0
CXP - Controlled Exports	311	0
ENT - DoD Enterprise	0	0
FIN - Finance and Accounting	0	0
GEO - Geospatial and Imagery	38	0
GMI - General Military Intelligence	2262	0
GOP - Ground Operations	1899	0
LOG - Logistics	335	0
MET - Meteorological and Oceanographic	837	0
MSG - Messages	6167	0
NBC - Nuclear Biological Chemical	0	0
PDT - Product Data	0	0
PER - Personnel	141	0
SEG - System Engineering	0	0
SUP - Supply	0	0
TAR - Tracks and Reports	773	0
TBD - To Be Determined	4088	0
TRP - Transportation	0	0
	17350	**0**

GAO XML Report

- GAO-02-327
  - Electronic Government: Challenges to Effective Adoption of XML
    - Government-wide strategy for implementing XML
    - Federal coordination as leverage on standards bodies
    - Government-wide XML Registry
    - Agencies address XML implementation through Enterprise Architectures
- Lieberman: Government needs plan for adopting XML
  - http://www.washingtontechnology.com/news/1_1/daily_news/18090-1.html
  - “Sen. Joseph Lieberman, D-Conn., called on the Bush administration April 10 to develop a plan that would enable information sharing through governmentwide adoption of extensible markup language, or XML.”
- FedCIO XMLWG Special Mtg w/GAO – 29 Apr

SSD-MD (XML) Subpanel
13 Jun 2002

- Tentative Agenda
  - DiMES Project
    - Dock Allen, MITRE
  - Update from OpenGIS Consortium
    - Chuck Heazel, OGC

ilson-1B02, Bedford-3M507, FtMo-3025, Langley-10